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NOTICE OF ALLOWANCE AND FEE(S) DUE

66785 7590 04/18/2008

DAVIS WRIGHT TREMAINE LLP - SANDISK CORPORATION 505 MONTGOMERY STREET

SUITE 800 SAN FRANCISCO, CA 94111 EXAMINER

YOHA, CONNIE C

ART UNIT

PAPER NUMBER

2827

DATE MAILED: 04/18/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552.948	09/11/2006	Jian Chen	SNDK 284US1	6753

TITLE OF INVENTION: READ AND ERASE VERIFY METHODS AND CIRCUITS SUITABLE FOR LOW VOLTAGE NON-VOLATILE MEMORIES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/18/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NO THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This f appropriate. All further c indicated unless corrected maintenance fee notificati	form should be used f orrespondence includin d below or directed oth ons.	or tran	nsmitting the ISSU Patent, advance on in Block 1, by (a					nould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDE	NCE ADDRESS (Note: Use Blo	ock 1 for	any change of address)	pap	ers. Each additiona	1 paper	, such as an assignmei	r domestic mailings of the or any other accompanying nt or formal drawing, must
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505 MONTGOM SUITE 800	ERY STREET	LLP -	- SANDISK	CORPORATION he Stat add tran	roby cortify that th	ic Good	of Mailing or Transo s) Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the da	deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
SAN FRANCISC	O, CA 94111							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/552,948	09/11/2006			Jian Chen			NDK.284US1	6753
TITLE OF INVENTION:								
APPLN. TYPE	SMALL ENTITY	IS:	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300	\$0		\$1740	07/18/2008
EXAMI	NER		ART UNIT	CLASS-SUBCLASS				
YOHA, CO	NNIE C		2827	365-185220				
"Fee Address" indic PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN	ndence address (or Cha /122) attached. cation (or "Fee Address' or more recent) attach	nge of ' ' Indicated. Use	Correspondence ation form e of a Customer		3 registered pater vely, e firm (having as a agent) and the nam meys or agents. If printed.	memb es of u no nan	era 2pto	ocument has been filed for
(A) NAME OF ASSIG		catego	ories (will not be pr	(B) RESIDENCE: (CITY				sup entity 🚨 Government
4a. The following fee(s) at Issue Fee Publication Fee (No	small entity discount p	ermitte		o. Payment of Fee(s): (Plea A check is enclosed. Payment by credit can The Director is hereby overpayment, to Depo	rd. Form PTO-2038	is atta	ched. required fee(s), any de	
	SMALL ENTITY statu	is. See	37 CFR 1.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeecords of the United Sta	uired) v tes Pate	will not be accepted ent and Trademark	d from anyone other than t Office.	he applicant; a regi	stered	attorney or agent; or th	e assignee or other party in
Authorized Signature _					Date			
Typed or printed name					Registration N			
This collection of informa an application. Confidenti submitting the completed this form and/or suggestio Box 1450, Alexandria, Vir Alexandria, Virginia 2231	tion is required by 37 C ality is governed by 35 application form to the ons for reducing this bur rginia 22313-1450. DC 3-1450.	FR 1.3 U.S.C. USPT rden, sh O NOT	11. The informatic . 122 and 37 CFR O. Time will vary hould be sent to th SEND FEES OR 0	on is required to obtain or in 1.14. This collection is est depending upon the indiversity of the complex of th	retain a benefit by t timated to take 12 ridual case. Any co er, U.S. Patent and D'THIS ADDRESS	he pub minute mmen Trader S. SEN	tic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Deps D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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DAVIS WRIGH	TREMAINE LLP	YOHA, CONNIE C			
505 MONTGOME	RY STREET	ART UNIT	PAPER NUMBER		
SUITE 800 SAN FRANCISCO, CA 94111			2827 DATE MAII ED: 04/18/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

- 2. The allowed claim(s) is/are 20-37.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - i) ☑ All b) ☐ Some* c) ☐ None of the:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 1/14/08
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. IT Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other .

Notice of Allowability

Application/Control Number: 10/552,948 Page 2

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DETAILED ACTION

Response to Arguments

 Examiner took notice of the remarks and amendments made by applicant filed on 1/14/08.

Response to Amendment

This office action is in response to Amendment filed on 1/14/08.

Claims 1-19 are canceled.

Claims 20-37 are newly added.

Claims 20-37 are pending.

Allowable Subject Matter

- Claims 20-37 are allowed.
- 5. Claims 20-37 are considered allowable since prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations having in combination with other features, a non-volatile data storage element storing a first data state having a negative threshold voltage and one or more second data states characterized by a positive threshold voltage; a sense circuitry and a compensation circuit, whereby the parameter used by the sense circuit to distinguish between the first and second data states in a normal read process is varied as a continuous function of one or more operating conditions.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to whose telephone number is (571) 272-1799. The examiner can Application/Control Number: 10/552,948 Page 3

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normally be reached on Mon. - Fri. from 8:00 A.M. to 5:30 PM. The examiner's supervisor,

Amir Zarabian, can be reached at (571) 272-1852. The fax phone number for this Group is (571)

273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov should you have questions on access to the Private Pair

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Connie C. Yoha/

Primary Examiner, Art Unit 2827